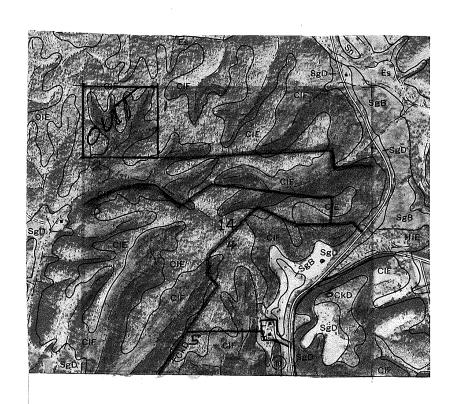
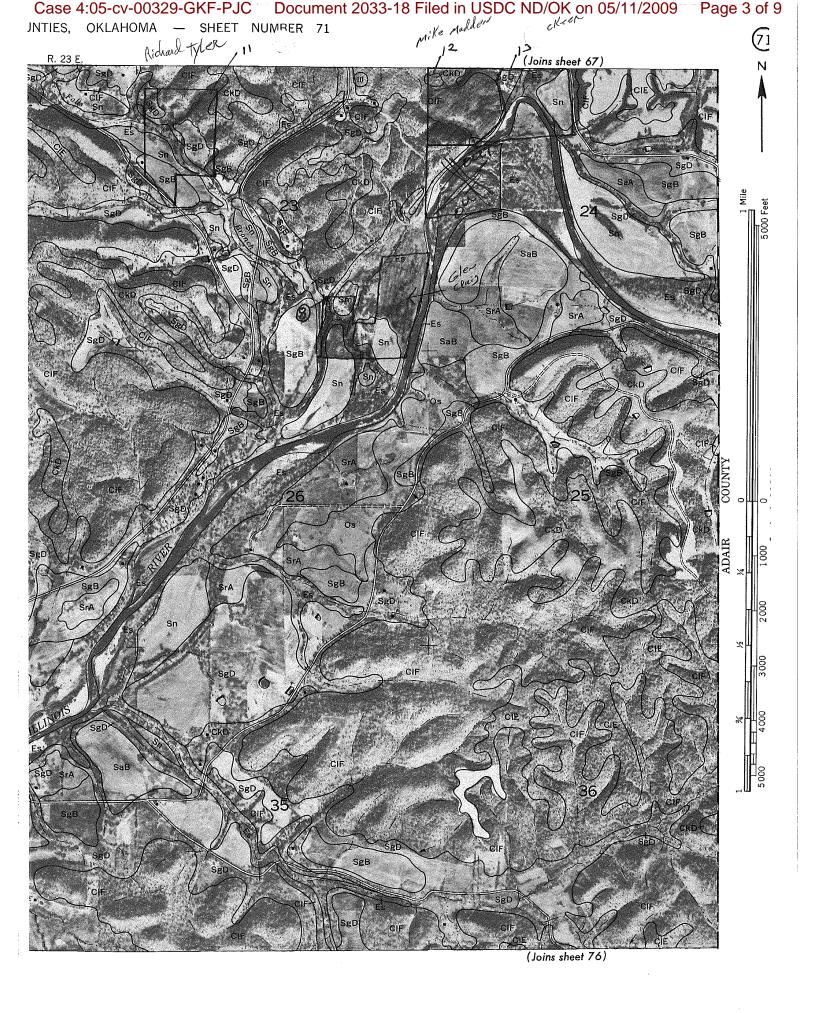
SOIL MAP WITH INTERPRETATIONS

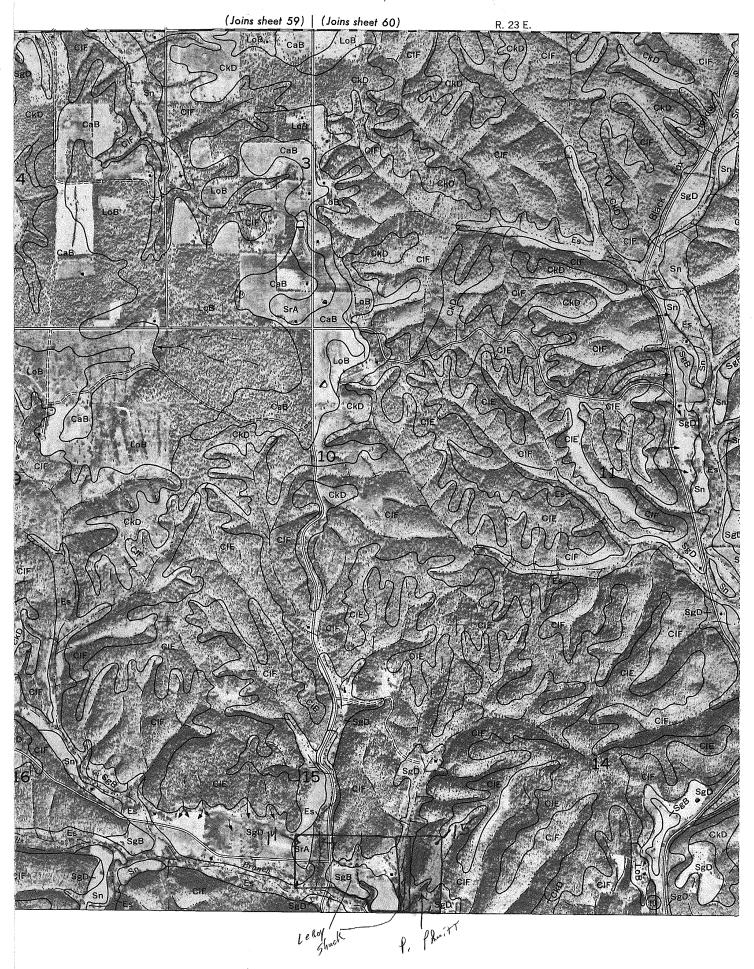
Owner Rober	rt Schwabe	Operator	same
County Ch	recokere	Oklahoma. Date	9/99
Approximate acres	600	Approximate so	ale
Cooperating with	Cheroker	Comy	Conservation District
	Plan identification	812 Photo nun	nber67
		Soil Conservation Service	







CHEROKEE AND DELAWARE COUNTIES, OKLAHOMA - SHEET NUMBER 67



DESCRIPTION OF OPERATION

This nutrient management plan includes the production, handling, and distribution of wastes in a manner that prevents or minimizes degradation of air, soil, and water resources. Best Management Practices such as prescribed grazing, nutrient management, waste utilization, pest management, and heavy use area protection may be used as components of the waste management system.

This plan pertains to a 32,000 bird TURKEY operation located in 3 houses in Cherokee County. The houses are cleaned out only as needed due to disease or excess volume. The houses are decaked after each flock. The cake is land applied by the producer. Full clean out waste over the amount of 774 tons (including cake amount) will be sold or applied off site. Dead birds are disposed of in a dead bird incinerator.

APPLICATION

Waste can be applied to fields 2, 3, 4, 8, 9, 10, 11, 12, 13, 14, and 15 at a maximum rate of 2.3 tons per acre per year. Waste can be applied to fields 1, 6, and 9 at a maximum rate of 1.2 tons per acre per year. Refer to soils map for application areas. DO NOT APPLY TO AREAS MARKED IN RED. BLUE AREAS ARE FOR HALF RATE APPLICATION ONLY. DO NOT APPLY TO STEEP SLOPES.

In the event the waste cannot be spread at cleanout, due to weather conditions, etc.; the waste will be temporarily stored and covered to prevent runoff. Maintain a filter strip of bermudagrass or other forage between pens/lots, and any natural drainage areas. Protect the filter strip from grazing by use of a fence.

Estimated nutrients available to plants (lbs/ton):

N = 40 lbs/ton (50% application loss) P2O5 = 86 lbs/ton (No application loss) K2O = 48 lbs/ton (No application loss)

Total waste production is estimated, by NRCS AWMFH, to be 1500 tons per year. This is assuming that the grow-out house is cleaned out in addition to the brooder houses. In a normal year when the houses are decaked only waste production is estimated, by the producer, to be 450 tons per year.

Total nutrients produced each year and available for delivery to the field, after storage and application losses for the decake only, are as follows:

N = 18,225 lbs P2O5 = 38,745 lbs K2O = 21,870 lbs

An initial soil test is required for each field to determine current phosphorus (P) levels in the soil. Recommendations made in this plan are based on the landowners' actual soil and litter tests. In the event of a full cleanout the producer must sell or give the litter to someone else for offsite application. This will only include the amount above the 774 tons which can be properly applied to land under the control of the producer.

A soil map is included as a part of this nutrient management plan. If any areas are not suitable for litter application, due to soil conditions, it will be colored red on the soil map. This is the do not apply area.

RECORD KEEPING

Producers should contact their state poultry inspector for record keeping information and the appropriate forms to use.

EMERGENCY DISPOSAL OF DEAD BIRDS DUE TO CATASTROPHIC LOSS

In the event of a catastrophic death loss caused by weather, fire, etc., the producer should contact Oklahoma Department of Agriculture for disposal recommendations.

TELEPHONE NUMBERS

Oklahoma Department of Agriculture
Dan Parish, Water Quality Director ----- 405-521-3864

Exhibit 1

Nutrient Budget Worksheet

	political market in the second	Bedige Tel			production of						
Landowne	Landowner: Bob Schwabe				Field No.:	1	50	Acres			
	andre Company Company Company Company Company										
Purpose (Check	all that apply)										
Budget and su	apply nutrients for plant p	production	✓ Utilize	organic ma	aterial as nu	trient sour	ce				
✓ Minimize agric	cultural nonpoint source	pollution	Mainta	ain or impro	ve soil con	dition					
							25,000				
	Crop Sequer					Expecte	ed Yield				
	Continuous g	jraze pasture				4	4				
N Test	N Remaining		Nutrient Content of Manure per ton P ₂ O ₅				K ₂ O				
81	40	86			48.6						
OTHER DESIGNATION OF THE PROPERTY OF THE PROPE		Current Soi	il Test Le	vels	3375	20, 2, 5 (1) (4) (2) (5 (1) (1) (1) (2) (2) (1) (1) (2) (2) (1)	***************************************				
N	Р	K)H	SOM%		EC				
22	202	481	6	6.0							
Recomme	nded Nutrients to Mee	t Expected Yield ar	nd Grass	Establishr	nent (See ⁻	Tables in !	590 Standa	ard)			
N	N for Grass Est.	P ₂ O ₅	K	20	Lime		Other				
200		0		0	0.	7					
		of other particles in the story				100		ACCOUNT TO THE PARTY OF THE PAR			
		Nutrient	t Sources	5							
	Credits		N		P ₂ O ₅		K₂0				
	lits from previous legu		0		- Participation and the second		and the state of				
2. Residual from long-term manure application			0								
3. Irrigation water			0								
4. Other (Atmos	phere, etc.)		0								
5.		Total Credits	0		0		0 K ₂ 0				
The state of the s	Applied Nutrients			N	P ₂ (E-MIRITALINI TANDA TANDA	Decree of the Assessment of the Control of the Cont				
6. Fertilizer	lott		Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2			
6. Fertilizer	Starter			470							
7.	Other	- 1	0		0	0	0 53	0			
8.	Manure or Organic		40 40	0 178	95 95	0	53	0			
	ents (add lines 5 and 8 pl	plied Nutrients	62	200	95	0	53	0			
10.			200		0	0	0	0			
			-138		95	0	53	0			
11. Nutrient Status (subtract line 10 from 9) -138 0 95 0 53 0 If line 11 is a negative number, this is the amount of additional nutrients needed to meet the crop recommendation.											
	itive number, this is the										
Nutrient Manageme	ent Decision - Including m	nethod, rate, form and	timing of a	application.	Producer	Selected Al	ternative:	1			
Alternative 1 assumes applying 1.1 tons per acre per year of Turkey litter. At this rate you will not meet the nitrogen requirements											
and exceed the Phosphorus and Potasium requirements.											
Alternative 2 assumes that you would sell your litter and supplement with 178 pounds per acre of commercial nitrogen fertilizer, 0.0 pounds of commercial phosphorus fertilizer per acre, and 0.0 pounds per acre of commercial potassium fertilizer per acre.											
o.o pounds of com	merciai phosphorus ieru	mzer per acre, and o.c	o pourius t	Jer acre or c	ommerciai	potassium	rerunzer pe	acre.			

10/2002

Client Name:		hwabe	Field(s):		T WORKSHEET Date:	4/16/2004	
Planner:	Marty	Hern	Location:	14-19-23	Crop:	pasture	
Nutrient Limited W	atershed (ves/no):	no			Ctrl + C clears worksheet	· · · · · · · · · · · · · · · · · · ·	
Soil Test P Index	. Kara este autoria de Nova						
Mehlich III (Ibs./ac)			202				
Application Method	Surface applied and days or injected 2'	incorporated within 7 below the surface	Surface applied or in than 7 days after x	and the second second			
Land Slope %	0 - 8 % x		8.1 - 1	5 %	> 15.1 %		
	an ngasyang maditan	Linkan open be 1947	Ossa Hear HAVE	> 0000 44053455		anten audita aut St. Va. Va. S. S.	
Erosion Rate Greater		0.		Y	es		
Than "T"		ne	Occasio	mally	ra - Casalovius Statean		
Flooding Frequency		C	Occasionally		Frequently		
Distance of Manure Application to	> 100 t	t. or Buffer Strip Estab	lished		0 - 100 ft.		
Perennial Stream, Pond, Well, or Sinkhole		x					
Distance of Manure Application to Intermittent Stream	> 50 ft. or Buffer Strip Established				0 - 50 ft.		
Depth of Soil	> 20.1 in.		10.1 - 20 in.		0 - 10 in.		
Rock Fragments in soil surface 3" to 10 " in diameter and xceed 50% by weight	No.				Yes		
or > 10" in diameter and exceed 25% by weight		x					
Rocks > 10" in diameter which cover > 3% of the soil		No			Yes		
surface					×		
	No	n - Nutrient Lim	ited Watershed -	Waste Applic	cation Rates ally not to exceed the Nitroger	1200 1200 110	
<i>∳</i> Moderate Rating	Apply at half rate	of the crop: Ap up to 150 lbs/ac runoff. Applicat Split Application per application made between a February 1 throu height.	plication of up to P2O5 when app tion of up to 200 n is designated, at least 30 days June 20 through ugh April 20 on e	o 100 lbs/ac Polied through solids/ac P2O5 who more than apart. On occurrence September 20 established co	205 when surface applied. Apprinkler irrigation and manag when incorporated within 7 da 1/2 the allowed rate of P205 v cassionally flooded soils, appl 0. Application may also be ma bol season grasses with at lea	oplication of led to preven lys. When a will be applied ication may be deep to between	
		Manage Emilie	l Watershed - W	agic Applicati	Ontaios		

Exhibit 1

Nutrient Budget Worksheet

Landown			Field No.:	2	20	Acres			
Purpose (Check									
	upply nutrients for plant pr				aterial as nu		ce		
✓ Minimize agric	cultural nonpoint source p	ollution	Mainta	in or impro	ve soil con	dition			
				all the second					
	Crop Sequent					Expect	ed Yield		
	Continuous gr	aze pasture					4		
Maria Barana	- and the second second								
		Nutrient Content		e per ton		· · · · · · · · · · · · · · · · · · ·			
N Test	N Remaining	P ₂	2 O 5				₂ O		
81	40	86	6.1	48.6			3.6	6	
						A de tarin	de la		
		Current So							
N	P	K	pl	H	SOI	И%	EC		
21	205	356	6.	4					
	THE STATE OF THE S				1.0				
Recomme	ended Nutrients to Meet				nent (See	Tables in	590 Stand	ard)	
N	N for Grass Est.	P ₂ O ₅	K2	:O	Lime		Other		
200		0	0)	O)			
	·	Nutrien	t Sources						
	Credits		2	1	P2	O ₅	K	₂ O	
1. Nitrogen cred	dits from previous legur	ne crop	0						
2. Residual fron	n long-term manure app	lication	0)	Calle of Call	e de la companya de l		ale de la compa	
3. Irrigation wat	er		0						
4. Other (Atmos	phere, etc.)		0						
5.		Total Credits	0		0		0		
	Applied Nutrients		N	l l	P ₂ (⊃ ₅	K ₂	₂ O	
			Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2	
6. Fertilizer	Starter								
	Other		0	179	0	0	0	0	
7.	Manure or Organic		80	0	198	0	112	0	
8.		lied Nutrients	80	179	198	0	112	0	
	ents (add lines 5 and 8 plu	s N from Soil Test)	101	200	198	0	112	0	
10.	Recommend		200	200	0	0	0	0	
	rient Status (subtract lir		-99	0	198	0			
	ative number, this is the a							1.	
If line 11 is a pos	itive number, this is the a	mount by which the	e applied n	utrients ex	ceed the c	rop require	ments.		
					3000				
	ent Decision - Including me					Selected Al		1	
	mes applying 2.3 tons per nosphorus and Potasium re		litter. At	this rate y	ou will not r	neet the nit	trogen requ	irements	
	nosphorus and Potasium re mes that you would sell yo		ment with 1	79 nounde	ner sere of	commercis	al nitrogen :	fortilizer	
	nmercial phosphorus fertili								
			- p			p			

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